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Wenke Lee , Salvatore J. Stolfo

ACM Transactions on Information and System Security (TISSEC) November 2000

Volume 3 Issue 4

Intrusion detection (ID) is an important component of infrastructure protection mechanisms. Intrusion detection systems (IDSs) need to be accurate, adaptive, and extensible. Given these requirements and the complexities of today's network environments, we need a more systematic and automated IDS development process rather than the pure knowledge encoding and engineering approaches. This article describes a novel framework, MADAM ID, for Mining Audit Data for Automated Models for Intrusion ...

**6** Copy detection for intellectual property protection of VLSI designs 77%






Andrew B. Kahng , Darko Kirovski , Stefanus Mantik , Miodrag Potkonjak , Jennifer L. Wong

Proceeding of the 1999 international conference on Computer-aided









design November 1999




We give the first study of copy detection techniques for VLSI CAD applications; these techniques are complementary to previous watermarking-based IP protection methods in finding and proving improper use of design IP. After reviewing related literature (notably in the text processing domain), we propose a generic methodology for copy detection based on determining basic elements within structural representations of solutions (IPs), calculating (context-independent) signatur ...

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The author of this paper was a practicing security professional for over ten years in government and industry before accepting a position in academia where he now teaches software engineering and computer security topics in graduate and undergraduate level programs. Lessons learned in the transition are presented along with some insights with respect to the depth and breath that today's computer science student is exposed to with respect to INFOSEC topics. A recommendation for incorporating ...
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Terran Lane , Carla E. Brodley  
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The anomaly-detection problem can be formulated as one of learning to characterize the behaviors of an individual, system, or network in terms of temporal sequences of discrete data. We present an approach on the basis of instance-based learning (IBL) techniques. To cast the anomaly-detection task in an IBL framework, we employ an approach that transforms temporal sequences of discrete, unordered observations into a metric space via a similarity measure that encodes intra-attribute dependence ...

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- 35 6,035,057 **T** Hierarchical data matrix pattern recognition and identification system
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- 45 5,845,049 **T** Neural network system with N-gram term weighting method for molecular sequence classification and motif identification
- 46 5,813,406 **T** Strain-sensing goniometers, systems and recognition algorithms
- 47 5,799,100 **T** Computer-assisted method and apparatus for analysis of x-ray images using wavelet

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